File 997604

STAT

STAT

25X1

STAT

STAT STAT Jenuary 11, 1965

PROCESSOR DEVELOPMENT PROGRAM

STAT

žře vo det ail the en	clean room installation is moving along at a lip. The flooring and walls are installed; they rking on the ceiling, lighting fixtures, and electrical s. expects actual construction to be done by d of January except for air conditioning which is completed by mid-February.	
	has four tasks in work:	
€.	Making up a comprehensive chart of film characteristics.	
b.	Making a continuing photo record of the clean room installation.	
c.	Conducting fundamental testing of processing temperature/processing time on three films4400, 4404, and S0278 up to about 118 F.	
đ.	Investigating elastic deformation (distortion) of wet film under tension.	
avails their	is providing guidance and assistance for the sature/time work. Such information should be ble from	STAT 25X1
constr with	designed a rig for measuring the force red to move film through water. This has been ructed and is preparing to conduct tests that the small boat marina, which wat five miles from HF.	

Declass Review by NIMA/DOD

Processor Development Program January 11, 1965

The procedure will be to subtance 100 ft of film a few feet under water. One end of the film will be attached to 100 ft of fishline and the force required to real in the fish line at various speeds will be measured. The film will be kept in a long streight line by small drag chates attached at intervals along its length. It will, of course, be necessary to measure the force required to real in the fish line and chutes without film and subtract that from measurements with the film. The measurement may be susceptible to errors due to flutter or twist.

It seems to we that guthering of some of this fundamental information is undramatic and it is difficult to assess its worth. It is necessary, however, to do this at the beginning of an investigative program in order to establish a solid basis for future work. It is essential that the test date be reported carefully and accurately in a form useable on fature work.

vas rather enthusiaetic over the possibilities of some new concepts in liquid bearings which he calls the receive. This is to be a completely self-contained bearing driven by an individual motor of less than 1/4 HF. Fortisps as limite as 1/10 MP will be adequate. The bearing is designed to produce an invard spiral path to the fluid from both edges of the film in order to provide a celf-centering feature.

Presently working on the program are:

It seems to no that about the end of February or early March would be a good time for to make a formal, personal presentation of the progress on the program and the results to date.

STAT

STAT

STAT

STAT